Bangalore Mahanagara Palike

Excecutive Engineer Yelahanka Division

Name of Work: Improvement and asphalting to 2nd main road of Muneshwara Layout in Attur ward no. 03.

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Estimate Cost Rs. 40.00 Lakhs Amount
Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2016-17).								
Bottom Slab								
5th main up to 8th cross	2	272.00	1.65		897.60			
W0154	2	172.00	1.65		567.60			
Top Slab								
4th main road	2	272.00	1.20		652.80			
	2	172.00	1.20		412.80			
BS Slab Total Qty					**2530.80**			
Consider 25% of BS Slab					**632.70**			
					632.70	**Sqm**	**65.72**	**41581.04**
Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
Qty same item no -1					632.70			
					632.70	**Sqm**	**80.56**	**50970.31**
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
Consider 10% of Total qty of Item no -1 BS Slab					253.08			
					253.08	**Sqm**	**665.68**	**168470.29**
KSRRB 300-1. Earthwork **excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
5th main up to 8th cross	1	272.00	0.90	0.30	73.44			
W0154	1	172.00	0.90	0.30	46.44			
5th main up to 8th cross	1	272.00	5.90	0.40	641.92			
W0154	1	172.00	5.00	0.40	344.00			
Debris	6	10.00	2.50	0.30	45.00			
Desilt	2	272.00	0.50	0.40	108.80			
	2	172.00	0.50	0.40	68.80			
					1328.40	**Cum**	**86.92**	**115464.53**
KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
5th main up to 8th cross	1	272.00	0.90	0.200	48.96			
W0154	1	172.00	0.90	0.200	30.96			
5th main up to 8th cross	1	272.00	5.90	0.175	280.84			
W0154	1	172.00	5.00	0.175	150.50			
					511.26	**Cum**	**1665.26**	**851380.83**

scription of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
M400- **Wet Mix Macadam** - KSRRB M400-17. Providing, laying, spreading and compacting stones aggregate to wet mix macadam specifications including pre mixing the material ater at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in n layers with paver in sub-base/base course on well prepared surface and compacting with ıry roller to achieve the desired density complete as per specifications. MORTH cation No. 406 (P.No.158 I.No.20.18)								
ıin up to 8th cross	1	272.00	5.90	0.225	361.08			
	1	172.00	5.00	0.225	193.50			
					554.58	**Cum**	**1768.08**	**980541.8**
ing and applying **primer coat with ss bitumen** emulsion on prepared surface of granular uch as WMM including clearing of road surface and spraying primer at the rate of 0.60 n using mechanical means complete as per specifications. MORTH Specification No.502 160/It No.21.6)								
ain up to 8th cross	1	272.00	5.90		1604.80			
4	1	172.00	5.00		860.00			
					2464.80	**Sqm**	**27.56**	**67,929.89**
M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 TPH capacity with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading ked with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers ieve the desired compaction as per MORTH table 500-10 complete in all respects complete specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
ain up to 8th cross	1	272.00	5.90	0.05	80.24			
4	1	172.00	5.00	0.05	43.00			
					123.24	**Cum**	**6284.74**	**774531.36**
500-7:Providing and **applying tack coat** with bitumen emulsion using 80/100 grade en (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in fitted with spray set (Excluding cleaning of road surface) including cost of all materials, r, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
ain up to 8th cross	1	272.00	5.90		1604.80			
4	1	172.00	5.00		860.00			
					2464.80	**Sqm**	**11.66**	**28,739.57**
3 M500- 15. Providing, laying **bituminous Concrete** using 40/60 THP capacity H.M.P with anical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 3 30 grade bituminous binder and , transporting the hot mix to work site , laying to the ed level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve esired compaction as per MORTH Specification clause No.500.9 complete in all respects lete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
ıain up to 8th cross	1	272.00	5.90	0.04	64.19			
4	1	172.00	5.00	0.04	34.40			
					98.59	**Cum**	**7083.98**	**698423.76**
3 M800-13: **Road marking** with hot applied thermoplastic compound with reflect rising glass s on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 hick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is sive of surface to level, uniform and free from streaks and holes complete as per fications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
ıain up to 8th cross	2	272.00	0.10		54.40			
54	2	172.00	0.10		34.40			
					88.80	**Sqm**	**542.72**	**48,193.54**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Loading and unloading of stone boulders/stone aggregates/sand/kankar/Moorum including all lead and lift and as per specification and direction of the Engineer in charge of the work.(P.No-134,I No-17.2)								
Qty frm Item No-4								
					1328.40			
					1328.40	**Cum**	**68.00**	**90,331.20**
Cost of haulage Excluding loading and unloading including all lead and lift and as per specification and direction of the Engineer in charge of the work., 10 Km lead								
Qty frm Item No-4								
					1328.40			
					1328.40	**Cum**	**32.00**	**42,508.80**
							Total Construction Cost	**3959066.94**
							DPR & PMC Charges	**40,900.00**
							Sub Total	**3999966.94**
							Utility Shifting, Miscellaneous, Rounding off	**33.06**
							GRAND TOTAL	**4000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

SILICON CONSULTING ENGINEERS

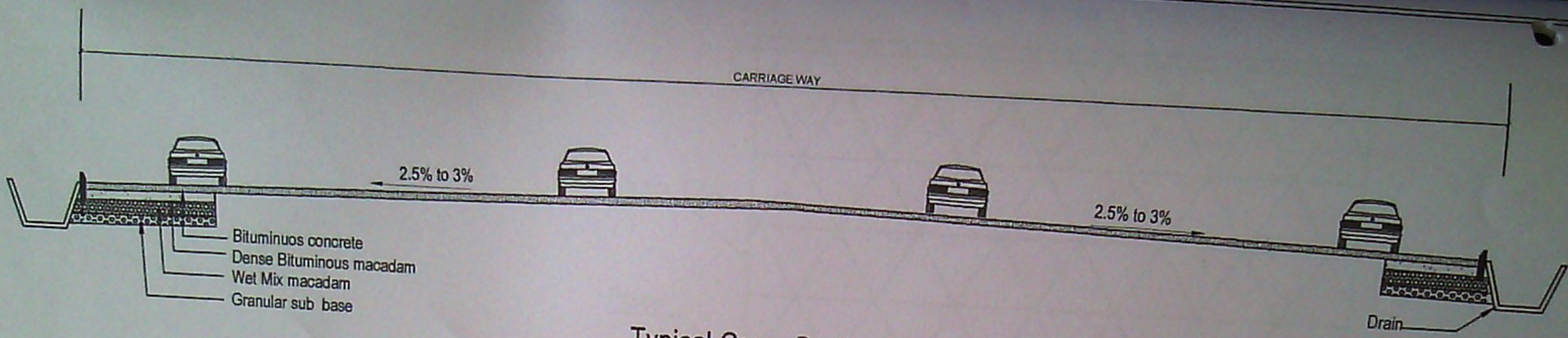
Assistant Engineer

Asst. Executive Engineer

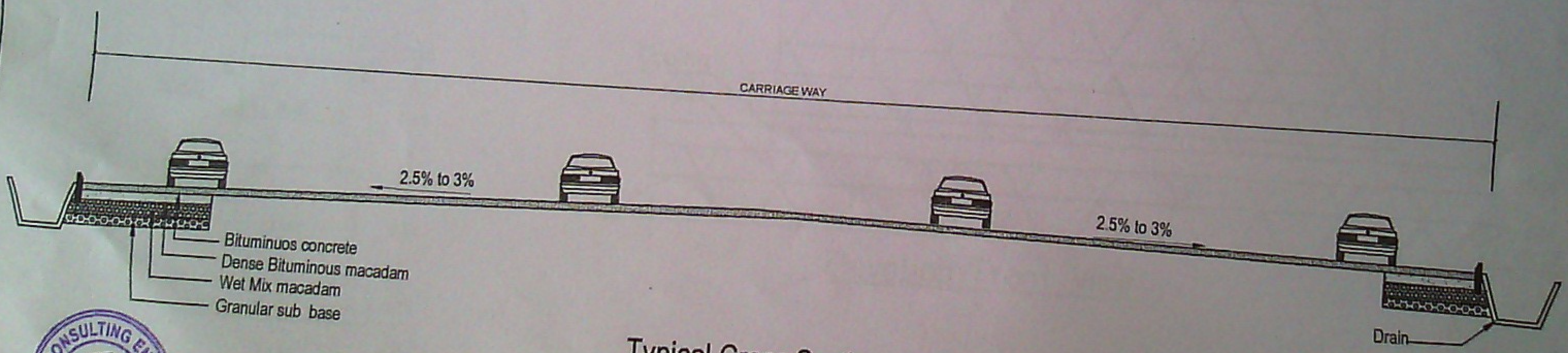
Executive Engineer,
Yelahanka Division,
BBMP Bangalore

Administrative Sanction for Rs. 40.00 Lakhs
(Forty Lakhs only)
is accorded under head P-3158-
2016-17
Registered as CE No.
subject to conditions contained in enclosed letter no.
No. EE/YNK/AA/07/18-19 7.9.18

Executive Engineer



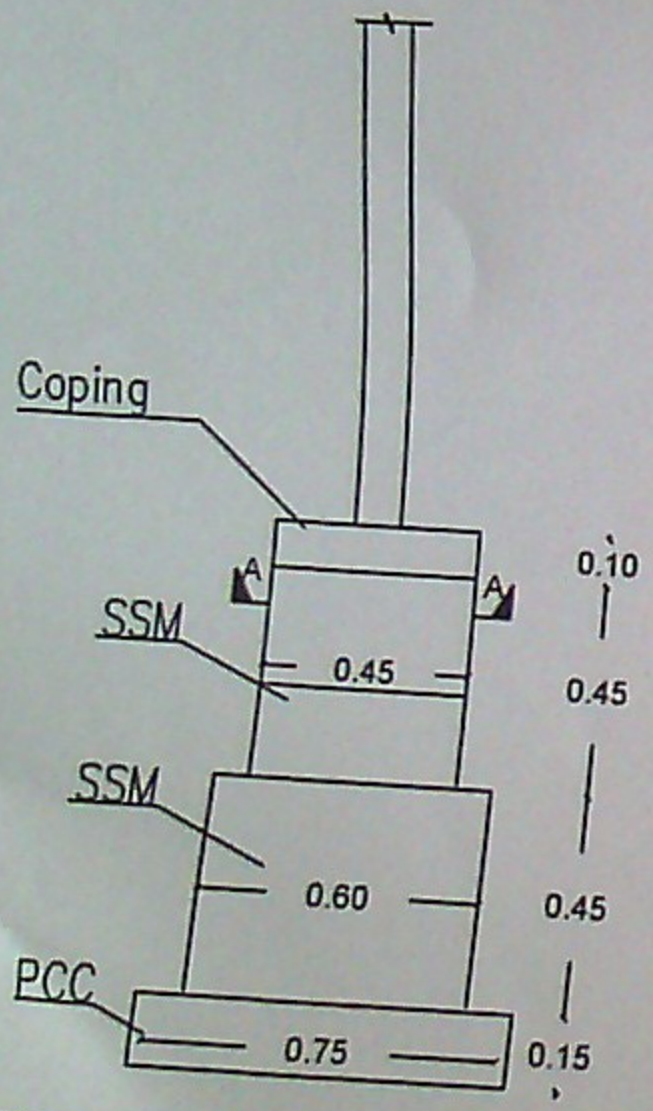
Typical Cross Section



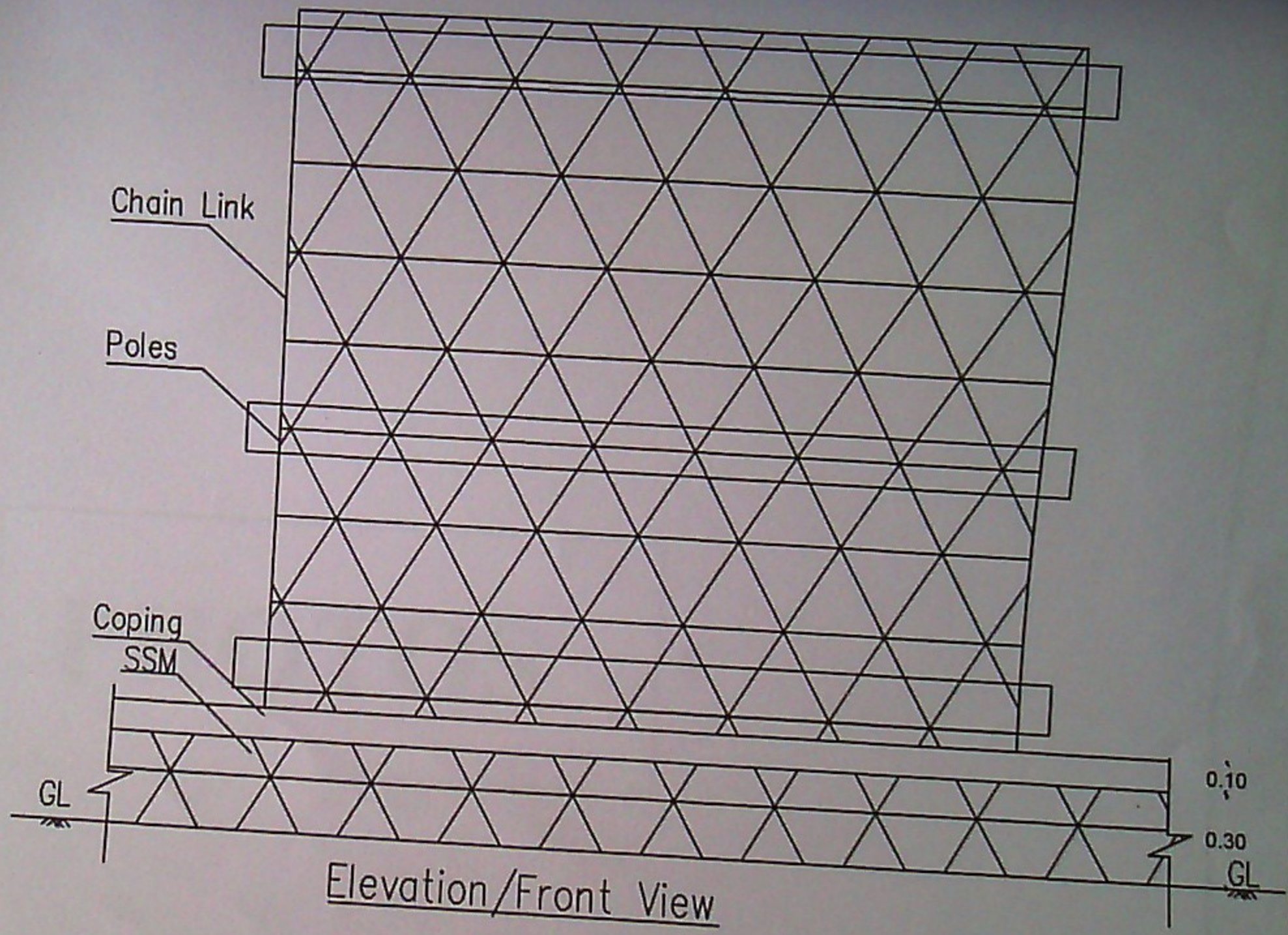
Typical Cross Section

SILICON CONSULTING ENGINEERS

AE-03



Section



Elevation/Front View

SILICON CONSULTING ENGINEERS

AE-07

ame of Work: Improvement and asphalting to 3rd, 4th and 5th main roads of Attur Layout in Attur wardno. 03.

SIMCON CONSULTING ENGINEERS

A2-05

ame of Work: Improvement and asphalting to 2nd main road of Muneshwara Layout in Attur ward no. 03.

&

me of Work: Improvement and asphalting to 10th and 11th cross roads of Muneshwara layout in Attur wardno. 03.

SILICON CONSULTING ENGINEERS

AE-07

ame of Work: Construction of Rangamandira at 5th Phase play ground and repair works in Vivekananda park in Attur ward no. 03.

Name of Work: Improvements to park near Dairy Circle in Attur ward no. 03.

&

Name of Work: Providing Chainlink fencing to Park Opposite BWSSB office in Attur ward no. 03.

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AE-03